COPY OF PAPERS
ORIGINALLY FILED

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Akira OKAMOTO et al

Art Unit: 2832

S. N. 09/980,959 ✓

Examiner:

International S.N.: PCT/JP99/02566

Filed: October 29, 2001

International Filing Date: 18 May 1999

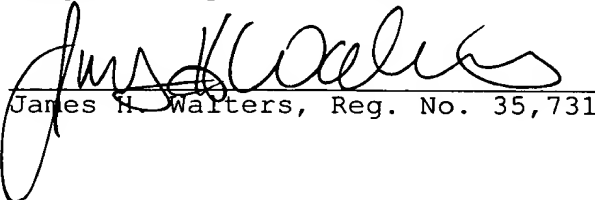
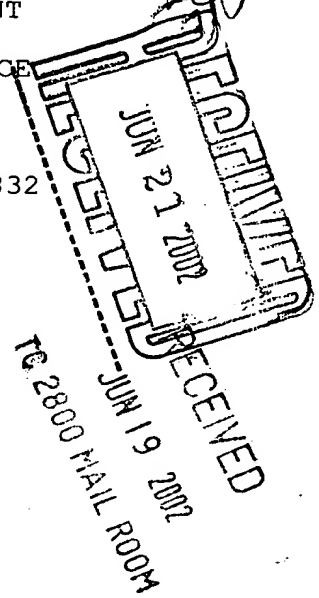
For: INDUCTOR ELEMENT

REQUEST FOR CORRECTED FILING RECEIPTAssistant Commissioner for Patents
Washington, D.C. 20231Attention: Office of Initial Patent Examination's
Customer Service Center

Sir:

A copy of the filing receipt that has been issued in connection with this application is enclosed. The information given in the filing receipt contains a typographical error in the title of the application, in that the spelling of the title is given as "INTROCTOR ELEMENT" when in fact the title should be spelled --**INDUCTOR ELEMENT**--, as noted on the first page of the application, the first page of the declaration, the inventor information sheet, the first page of transmittal letter, the certificate of mailing, and the return postcard (copies enclosed) which were filed with this application. It is therefore requested that a corrected filing receipt showing the title of this application to be **INDUCTOR ELEMENT** be issued.

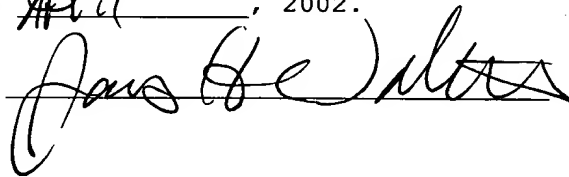
Respectfully submitted,


James H. Walters, Reg. No. 35,731802
DELLETT AND WALTERS
Suite 1101
310 S.W. Fourth Avenue
Portland, Oregon 97204 US
(503) 224-0115
DOCKET: A-411

S.N. 09/980,959 (PCT/JP99/02566)
Filed October 29, 2001 (18 May 1999)
Request for Corrected Filing
Receipt and related documents

Certificate of Mailing

I hereby certify that this correspondence is being deposited as first class mail with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231, on this 19th day of April, 2002.



COPY OF PAPERS
ORIGINALLY FILED

UNITED STATES PATENT AND TRADEMARK OFFICE

 COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20231
 www.uspto.gov

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO. | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|------------------|----------|------------|------------|
| 09/980,959 | 10/29/2001 | 2832 | 890 | A-411 | 8 | 10 | 1 |

 802
 DELLETT AND WALTERS
 310 S.W. FOURTH AVENUE
 SUITE 1101
 PORTLAND, OR 97204


CONFIRMATION NO. 3454

FILING RECEIPT



OC000000007458198

Date Mailed: 02/12/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

 Akira Okamoto, Saitama, JAPAN;
 Takeshi Ikeda, Tokyo, JAPAN;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/JP99/02566 05/18/1999

Foreign Applications

Projected Publication Date: Not Applicable, filed prior to November 29, 2000

Non-Publication Request: No

Early Publication Request: No

Title

Inductor
~~Inductor~~ element

Preliminary Class

336

 RECEIVED
 JUN 19 2002
 ITC 2800 MAIL ROOM

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



SPECIFICATION

INDUCTOR ELEMENT

COPY OF PAPERS
ORIGINALLY FILED

TECHNICAL FIELD

The present invention relates to an inductor element that can be formed on various kinds of substrates such as a semiconductor substrate.

RECEIVED
JUN 19 2002
TC-800 MAIL ROOM

BACKGROUND ART

There is known such a semiconductor circuit that forms a spiral pattern on a semiconductor substrate by using thin film forming technique, and uses this pattern as an inductor element. When current flows in such an inductor element that is formed on a semiconductor substrate, magnetic flux is generated in the direction perpendicular to a spiral pattern. Nevertheless, since eddy currents are induced on the front side of the semiconductor substrate by this magnetic flux to cancel effective magnetic flux, there is such a problem that doesn't effectively function as the inductor element. In particular, since the higher a frequency of a signal which flows in the inductor element becomes, the more remarkable this inclination becomes, and consequently it is difficult to form a high frequency circuit including the inductor element on a semiconductor substrate.

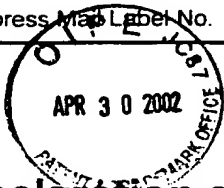
DISCLOSURE OF THE INVENTION

The present invention is achieved in view of such a point. Its object is to provide an inductor element that effectively functions even if the inductor element is formed on a substrate.

Express Mail #1299800333705

Express Mail Label No. **EL 898003337US**

Page 1 of 3



Docket No.
A-411

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

INDUCTOR ELEMENT

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on 18 May 1999 as United States Application No. or PCT International Application Number PCT/JP99/02566 and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

| | | | |
|-------------------|--------------------|---------------------------------|--------------------------|
| _____ (Number) | _____ (Country) | _____ (Day/Month/Year Filed) | <input type="checkbox"/> |
| _____ (Number) | _____ (Country) | _____ (Day/Month/Year Filed) | <input type="checkbox"/> |
| _____ (Number) | _____ (Country) | _____ (Day/Month/Year Filed) | <input type="checkbox"/> |

**RECEIVED
JUN 19 2002
TC 2800 MAIL ROOM**

INVENTOR INFORMATION

Inventor One Given Name:: Akira
Family Name:: Okamoto
Postal Address Line One:: 7-17, Midorigaoka 4-chome
City:: Ageo-shi
State or Province:: Saitama
Country:: Japan
Postal or Zip Code:: 362-0015
City of Residence:: Ageo-shi
State or Province of Residence:: Saitama
Country of Residence:: Japan
Citizenship Country:: Japan
Inventor Two Given Name:: Takeshi
Family Name:: Ikeda
Postal Address Line One:: 5-6-213, San-no 2-chome, Ohta-ku
City:: Tokyo
Country:: Japan
Postal or Zip Code:: 143-0023
City of Residence:: Tokyo
Country of Residence:: Japan
Citizenship Country:: Japan

CORRESPONDENCE INFORMATION

Correspondence Customer Number:: 802
Electronic Mail One:: patents@onemain.com

APPLICATION INFORMATION

Title Line One:: ~~INDUCTOR ELEMENT~~
Total Drawing Sheets:: 8
Formal Drawings?: Yes
Application Type:: Utility
Docket Number:: A-411
Secrecy Order in Parent Appl.?: No

REPRESENTATIVE INFORMATION

Representative Customer Number:: 802
Registration Number One:: 35731

CONTINUITY INFORMATION

This application is a:: 371 OF
> Application One:: PCT/JP99/02566
Filing Date:: 05-18-1999

File # A-411-89003337US

| | | | | | |
|--|--|---|--|---|--|
| FORM PTO-1390 (Modified) (REV 11-2000) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTORNEY'S DOCKET NUMBER A-411 | |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | | | U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR | |
| INTERNATIONAL APPLICATION NO. PCT/JP9902566 | | INTERNATIONAL FILING DATE 18 May 1999 | | PRIORITY DATE CLAIMED 18 May 1999 | |
| TITLE OF INVENTION INDUCTOR ELEMENT | | | | | |
| APPLICANT(S) FOR DO/EO/US Akira OKAMOTO et al | | | | | |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
- ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - ☐ is attached hereto (required only if not communicated by the International Bureau).
 - ☒ has been communicated by the International Bureau.
 - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - ☒ is attached hereto.
 - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - ☐ are attached hereto (required only if not communicated by the International Bureau).
 - ☐ have been communicated by the International Bureau.
 - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - ☒ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
- ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
- ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 20 below concern document(s) or information included:

- ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☒ A **FIRST** preliminary amendment.
- ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
- ☐ A substitute specification.
- ☐ A change of power of attorney and/or address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
- ☒ A second copy of the published international application under 35 U.S.C. 154(d)(4).
- ☒ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- ☒ Certificate of Mailing by Express Mail
- ☒ Other items or information:

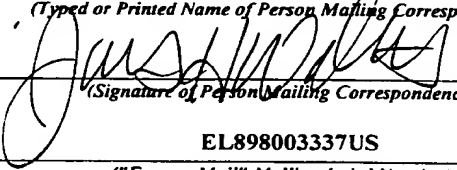
Inventor Information Sheet
Copy of Form PCT/IB/308; Copy of Form PCT/IB/306
English translation of International Preliminary Examination Report
English translation of International Search Report ((Form PCT/ISA/210 (second sheet))

RECEIVED
JUN 19 2002
TC 2800 MAIL ROOM

... 1161 #EL800333705

COPY OF PAPERS
ORIGINALLY FILED



| | | | |
|---|----------------------------|----------|---------------------|
| CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): Akira OKAMOTO et al | | | Docket No. A-411 |
| Serial No. PCT/JP99/02566 | Filing Date 18 May 1999 | Examiner | Group Art Unit |
| Invention: INDUCTORELEMENT | | | |
| <p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"><p>Entry to National Phase Transmittal (& documents & fees listed as enclosed)</p><p><i>(Identify type of correspondence)</i></p></div> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on</p> <p><u>OCT 29, 2001</u> <i>(Date)</i></p> <div style="text-align: right; margin-top: 20px;"><p>James H. Walters <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><p> <i>(Signature of Person Mailing Correspondence)</i></p><p>EL898003337US <i>("Express Mail" Mailing Label Number)</i></p></div> | | | |

RECEIVED
JUN 19 2002
TTC 2800 MAIL ROOM

Note: Each paper must have its own certificate of mailing.



COPY OF PAPERS
ORIGINALLY FILED

RECEIVED
JUN 19 2002
TC-2800 MAIL ROOM

In re Application of: Akira OKAMOTO et al

Serial Number: PCT/JP99/02566

Filing Date: 18 May 1999

Title: INDUCTORELEMENT

Docket Number: A-411

09/980959

Receipt is hereby acknowledged in the United States Patent and Trademark Office of the following: Patent application entry into the National phase including transmittal, English translation of International application (including 12 pages specification, 2 pages claims, 1 page abstract, 8 sheets drawings); 2nd copy of English language translation, 2nd copy of published international application, combined declaration and power of attorney, assignment and assignment recordation cover sheet, preliminary amendment w/1 sheet proposed drawing amendment and replacement drawing sheet, copy of Form PCT/IB/308, Form PCT/IB/306, copy of International search report w/English translation, copy of International Preliminary Examination report w/English translation, check/credit card payment form for \$930.00 (\$890 filing fee/\$40 assignment recordation fee), certificate of mailing by Express Mail Label No. EL898003337US, and this return postcard as of the date stamped hereon.

JC14 Rec'd PCT/PTO 29 OCT 2001